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ABSTRACT

A cement composition for use in acidic environment containing liquid alkali silicate, vitreous silicate setting agent, lime containing material and inert filler and building materials made therefrom as well as the method of making such building materials. The liquid alkali silicate may include sodium silicate or potassium silicate. The vitreous silicate setting agent may include soda-lime glass powder or coal fly ash. The lime containing material refers to the materials containing more than 20% lime and may include quicklime, hydrated lime, Portland cement, blast furnace slag or steel slag. The inert fillers include ground quartz, ground ceramic, and/or clay.

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